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CPT JAMES T. WALSH, MS

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A study of the feasibility of transferring the army Health Clinic, St. Louis, to the U.S. Air Force. The study is comprised of both quantitative analyses and qualitative issues. The results of the study show a cost-avoidance through realignment of the Clinic in addition to improved patient access and improved coordinated care performance for the Scott Air Force Base Medical Center.

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**A STUDY ON THE TRANSFER OF THE  
ST. LOUIS ARMY HEALTH CLINIC TO THE AIR FORCE**

A Graduate Management Project  
Submitted to the Faculty of  
Baylor University

In Partial Fulfillment of the  
Requirements for the Degree  
of

Master of Health Administration  
by

Captain James T. Walsh, MS  
February, 1993

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**ABSTRACT**

This project studies the quantitative and qualitative aspects of transferring control of the St. Louis Army Health Clinic to the U.S. Air Force. The study focuses on the catchment area currently falling under the responsibility of the Scott Air Force Base Medical Center. Lying well within the Scott catchment area but far from its parent headquarters at Fort Leonard Wood, MO, the Clinic is in a position that will influence the success of the coordinated care program that the Scott Medical Center will soon be initiating.

The results of the cost-effectiveness analysis predict a potentially significant cost-avoidance in the catchment area. The qualitative analysis, focusing on the managerial criteria and aspects of the transfer, also support such a realignment.

The conclusions drawn from the study demonstrate that "local ownership" of the Clinic would enhance the coordinated care program for Scott Medical Center. and reduce operating costs. Another conclusion demonstrates that the Clinic's location may inhibit patient access, potentially affecting effectiveness.

The premier recommendation of the project is to realign the Clinic under the Scott Medical Center with a further recommendation to move its location.

**A Study on the Transfer of the  
St. Louis Army Health Clinic  
to the Air Force**

The Coordinated Care Program initiated by the Department of Defense has increased the awareness of Medical Treatment Facility (MTF) Commanders of the need to provide quality health care to eligible beneficiaries in an efficient manner. This managed care program encourages the provision of care in the most cost-effective way without compromising quality and access. This management project explores the feasibility of realigning the U.S. Army Health Clinic, Saint Louis, Missouri, under the U.S. Air Force as one avenue for improving the efficiency of providing health care in the Department of Defense (DOD).

Conditions which prompted the study.

As one of the predominant issues in the reform of the Department of Army medical system, the Gateway to Care program has created an environment in which administrators and clinicians alike, strive to improve operations and avoid unnecessary costs.

The U.S. Army Medical Department Activity (MEDDAC) at Fort Leonard Wood, Missouri is composed of several entities in addition to the main General Leonard Wood Army Community Hospital. This situation offers many opportunities to explore ways to improve the efficiency

of a relatively large system. The Fort Leonard Wood MEDDAC includes several substations such as troop medical clinics, health clinics and occupational health clinics. The Army Health Clinic in St. Louis (hereafter referred to as the "Clinic") offers ample opportunities for exploring cost-effective measures for maintaining services for beneficiaries, while improving efficiencies. These efficiencies include not only cost avoidance measures but also patient services and convenience. After an initial scan of the current situation at the Clinic, it was determined that two of the alternatives to its current operation are the possibilities of transferring the "ownership" of the Clinic to the Air Force Medical Center, Scott Air Force Base, Illinois, and relocating the Clinic to a new location. The conditions which prompted the decision to study this realignment follow.

The St. Louis Army Health Clinic falls under the command and control of the Medical Department Activity, Fort Leonard Wood, Missouri. The Clinic provides primary care services and some limited services in pathology, dental, EKG, and optometry to a defined population of approximately 20,000 beneficiaries; to include Active Duty and their eligible family members,

Retirees and their eligible family members, and eligible survivors (The beneficiary population will be further described in the next chapter). With its associated dental clinic, the Clinic employs 44 military and civilian personnel. Total costs of operating the Clinic approach \$3 million per year.

The Clinic is located approximately 130 miles from Fort Leonard Wood, in the heart of downtown St. Louis. This location is within the 40-mile catchment area of the Scott AFB Medical Center, which is approximately 25 miles away. This Medical Center is a tertiary care teaching facility for the Air Force Medical Department. As can be surmised, the Clinic's beneficiary population overlaps with that of the Scott Medical Center. The significance of this situation and its potential impact on future coordinated care programs at Scott Medical Center, to include the allocation of CHAMPUS funds to the Commander, will be discussed later.

During Fiscal Year 1991, CHAMPUS expenditures attributed to the Scott AFB/St. Louis catchment area exceeded \$18 million, of which \$4.6 million were patient out-of-pocket costs (Draft Managed Care Assessment, 1992). The services provided through CHAMPUS reimbursement ran the spectrum from EENT,

general surgery, neurosurgery, urology, obstetrics and gynecology, to name only a few. A full listing of the categories of services provided is shown in Appendix B.

The management question.

This study attempts to answer the question: Can the Federal Government improve the efficiency of providing health care to eligible beneficiaries of the military health care system in the St. Louis area by realigning the Army Health Clinic under the Air Force and/or relocating the Clinic?

Literature review.

This study focuses on the economic analysis of the effects of transferring control of the Clinic to the Air Force. Literature suggests some methods of conducting this analysis. Warner and Hutton (1980), in a search of nearly 500 articles of the literature current at that time, determined that the prevalence of the use of cost-benefit analysis (CBA) and cost-effectiveness analysis (CEA) techniques is increasing in health care. This article defined the differences between CBA and CEA. The CBA is best used in comparing courses of action which are dissimilar, such as brewing beer versus publishing magazines, and their resulting opportunity costs. In health care, CBA often involves

a factor of health levels or added years of life expectancy expected to result from differing courses of action involving health care policies. In contrast, conducting a cost-effectiveness analysis is a common method of comparing courses of action of a similiar nature, such as performing one type of invasive surgical procedure versus another type of procedure, resulting in equivalent outcomes.

Jacobs (1991), in an article comparing these two methods of economic measurement, shares the same basic concepts of CBA and CEA. The article offers some examples of conducting such analyses but focuses mostly on clinical decisions and medical procedures.

Weinstein and Stason (1977) focused on recommended procedures for cost-effectiveness analyses in health care. This article gives a good general concept of conducting a CEA for health care on the macro-social level, involving morbidity and quality-adjusted life years (QALY).

These articles suggest that, while most CEA studies have focused on varying levels of health or varying types of services provided, the CEA can also be used while holding health levels or services constant and measuring the changes in cost for the alternative

courses of action in question. This literature suggests that a cost-effectiveness analysis would be the method of choice for conducting the proposed study of retaining the Army status of the Clinic versus realigning the Clinic with the Air Force.

Purpose.

The purpose of this study is to determine whether the efficiency of providing health care to beneficiaries in the St. Louis area could be improved by realigning the Clinic under the Air Force as part of the Scott Medical Center organization. The nature of this study requires both the quantitative cost-effectiveness analysis as well as a qualitative analysis of issues which cannot necessarily be quantified but which must be considered in this issue.

The quantitative study will evaluate the management question as presented earlier: Can the Federal Government improve the efficiency of providing health care to eligible beneficiaries of the military health care system in the St. Louis area by realigning the Clinic under the Air Force?

Particular attention will be paid to the following information in determining the quantitative conclusions: 1) current number of patient visits

within the catchment area, which includes the Clinic, the Medical Center and CHAMPUS, 2) current costs of CHAMPUS in the Scott AFB catchment area, 3) current costs of operating the Scott Medical Center and, 4) current costs of operating the Clinic, 5) the anticipated cost of providing health care to DOD beneficiaries in the St. Louis area without realignment and, 6) the cost of providing the same care with realignment.

#### **Method and Procedures**

The method for conducting the quantitative analysis for this study follows the approaches described in the literature reviewed above, with the exception that some alterations of procedures have been more closely tailored to the needs of this project. The design of the study itself has been adapted from S. Isaac and W.B. Michael (1981). The approach recommended by these authors for this type of study is a "descriptive research" method which lends itself most adequately to this type of economic study where statistical analyses are not practical. The qualitative issues will be addressed in the discussion chapter of this paper.

It must be noted here, that this project necessitates considerable coordination with agencies both within the Army as well as external to the Army. The first step in the process for this study was to gain a certain level of acceptance for the general concept of transferring ownership of the Clinic, primarily for the purpose of building a concensus that the project was of potential value. Also, gaining acceptance allowed the freedom to conduct research and obtain information from the involved agencies with the support of the appropriate Commanders and Directors.

Acceptance of the project was gained through a series of discussions, information papers, reports and telephone conversations directed to the Commanders of the Fort Leonard Wood MEDDAC, the Scott Air Force Base Medical Center, key staff members of each facility, the Officer-In-Charge of the Clinic, the Assistant Director of the Jefferson Barracks Veterans Administration complex in St. Louis, and selected staff members of Fort Leonard Wood MEDDAC's corporate headquarters, the U.S. Army Health Services Command. Once this acceptance was received, doors were open for obtaining data and information necessary for conducting the study.

The cost-effectiveness analysis flows in the following manner: First, the costs of providing care in the catchment area are determined. This entails detailed cost data for the Clinic, the Medical Center and CHAMPUS. Coupled with the cost data is the workload information for each entity. For the purposes of this study, the numbers of patient visits are used as a proxy for workload. Next, estimates are made of the future costs of providing care in the catchment area. Of course, since there is no definitive way to determine such future costs, this study considers different alternatives that could potentially reduce costs. Then, future workload estimates are made for each entity with the intent of determining whether a shift of patient visits would occur from one location to another. Finally, other considerations, such as patient access issues and potential arrangements with other agencies that could influence costs are discussed.

The analysis shows current costs of providing health care to eligible beneficiaries inclusive of the three components: Clinic, Medical Center, and CHAMPUS, in relation to the number of services provided. Services provided, as will be discussed later, is

represented by the number of patient visits. Then, a comparison is made using the same formula but reflecting expected costs of providing the same volume of services if the transition were to occur. The comparison of the two costs, coupled with the qualitative criteria, forms the basis for recommendations on whether transfer of the Clinic to the Air Force and/or relocating the Clinic would improve the efficiency of providing health care in the catchment area.

Data collection.

Obtaining the appropriate information required acquisition of CHAMPUS expenditure data from the OCHAMPUS database and the Tri-Service CHAMPUS Statistical Database Project (TCSDP). Information from TCSDP, which operates the Financial Analysis Support System (FASS), has workload and cost information which conflicts with that obtained from OCHAMPUS. During data collection on these items, it was found that the OCHAMPUS data obtained through Army channels and Air Force channels were more closely matched than the data obtained from FASS. For this reason, and for the purposes of this study, OCHAMPUS is the predominant source of cost and workload data. These sources

provided information on the costs of providing CHAMPUS services for all qualified beneficiaries within the St. Louis/Scott AFB catchment area, typically defined as a 40-mile radius measured from the military treatment facility (in this case - Scott AFB). The results of this research is described and utilized later in this study.

Further research regarding budgetary information on the costs of operating the Clinic, as it currently stands, was obtained from the Resource Management Division of the Fort Leonard Wood MEDDAC, as the primary resource allocator for the Clinic and other outlying MEDDAC facilities. Fiscal resource information regarding the Scott Air Force Base Medical Center was obtained through visits to that facility. Coupled with the above-mentioned CHAMPUS expenditure information, a relatively reliable figure on total military health care costs for the catchment area will be assumed.

Other information, such as Clinic staffing levels and workload, characteristics of the physical location of the Clinic, amenities, ancillary issues, and potential alternatives (to be discussed later) was obtained through a two-week visit with the Clinic.

This visit offered information, though not necessarily quantifiable, which may have an effect on decisions potentially made as an extension of this project.

Limitations of the study.

This study involves the use of data from several different agencies and data sources. In the effort to keep all cost and visit data within the same fiscal year, Fiscal Year 1991 has been used as the base for all information from which conclusions were drawn. This period of time allowed for definitive information on actual expenditures for all entities involved; the Clinic, the Medical Center, and CHAMPUS. As definitive data for Fiscal Year 1992 becomes available, this study could be readily updated to reflect more current information.

Validity and reliability.

The validity of the collected data will not involve statistical criteria as this study centers around the required and available financial data. This data is assumed to be reliable due to the nature of the sources of the data.

Ethical considerations.

Ethical considerations for this study will result in the confidentiality of patient information. Since

there is has been no direct experimental or other contact with particular subjects, only database information, there is no threat of unethical activity.

Quantitative study design.

As mentioned earlier, the method used for conducting the financial analysis for this project is a cost-effectiveness analysis as part of the descriptive research method. This analysis will be used to measure costs under the current and proposed situations and will provide decision criteria for the management question.

In designing the analysis, then, the most critical issues will revolve around 1) the cost of providing care in the catchment area with realignment and 2) the cost without realignment. Both of these costs are derived from several components. These component costs include the Clinic, the Medical Center, and CHAMPUS.

The Army Health Clinic.

The first component consists of the cost of operating the Clinic itself. This cost is comprised of civilian and military pay expenses, supplies and equipment, rent expenses, and miscellaneous expenses. Information obtained from the Fort Leonard Wood MEDDAC Resources Management Division reflect all Fiscal Year

1991 (1 October 1990 through 30 September 1991) actual expense obligations as exhibited in Table 1.

---

St. Louis Clinic Obligations

Fiscal Year 1991

Civilian Pay	\$ 868,000
Military Pay	1,120,500
Supplies and Equipment	618,100
*Rent for Clinic Space	224,000
<u>Miscellaneous Expenses</u>	<u>37,100</u>
**Total FY91 Obligations	\$2,867,700

\*Rent includes utilities, housekeeping and three (3) free parking spaces.

\*\*Total FY91 obligations include Health Clinic expenditures, the co-located Dental Clinic, and Goodfellow Occupational Health Clinic.

---

Table 1 Clinic Expenses

Note: A detailed expense report is at Appendix C.

The number of clinic visits conducted at the Army Health Clinic during Fiscal Year 1991 is shown in Table 2. It should be noted, however, that these figures represent only those visits in which there was a patient/physician encounter. Since a transfer of the Clinic would involve the transfer of these visits, and all ancillary support for these visits, these figures will be used as a proxy for workload at the Clinic.

---

Annual Clinic Visits FY 1991

<u>Specialty</u>	<u>Annual Visits</u>
Primary Care	18,912
Pediatrics	2,903
<u>Flight Medicine</u>	<u>1,176</u>
TOTAL	22,991

---

Table 2 Clinic Visits

Note: It is expected that the demand for clinic visits at the Army Clinic will not change significantly if a realignment should occur, since the beneficiary population will not be changed.

In terms of patient throughput, which is defined as the complete episode of care involved in one complete clinic visit, the cost of providing care for each visit, or throughput, is shown below. The total clinic cost shown does not include the dental expenditures shown at Appendix C since dental visits are not considered in this study.

$$\frac{\$2,407,500 \text{ total Clinic costs less Dental*}}{22,991 \text{ throughputs}} =$$

\$105 per throughput

\*less Dental means that the expenditures for dental operations and personnel are excluded from this figure

Other characteristics of the Clinic include its location in the Federal Building at 1520 Market Street in downtown St. Louis. It occupies 13,416 square feet

of space which holds the Clinic and an attached Army Dental Clinic. The building is operated by the General Services Administration (GSA) which leases this space to the Army. At the current time the rental cost is paid directly to the GSA by the Army Training and Doctrine Command (TRADOC). This arrangement is scheduled to change in Fiscal Year 1994 by an allocation of funds to Health Services Command for payment to the GSA. This change will place responsibility for the lease of this space directly in the hands of the Army Medical Department.

The civilian and military pay components of the Clinic's operating expenses are a result of the following assigned personnel strengths (Table 3):

---

	<u>Authorized</u>	<u>Assigned</u>
*Health Clinic	29	31
Dental Clinic	11	12
<u>Occ. Health Clinic</u>	<u>4</u>	<u>4</u>
Total Persons	44	47

\*Five (5) physicians are assigned. Two are military and three are civil service.

---

**Table 3      Clinic Personnel**

As mentioned earlier, there are other considerations involved in the transfer of this Clinic. Some of the Clinic-specific items are discussed here.

Adjunct to the actual operating expenses of the Clinic are the parking fees required of Clinic staff as well as patients. Downtown St. Louis is a relatively congested area and parking anywhere around the Clinic building comes at a minimum cost of \$2.50 per day. Availability of parking had not been a problem, until December of 1992. At this time, the adjacent building, Kiel Auditorium, began a major renovation program that eliminated its attached parking garage. This obviously has increased the demand for other existing spaces that serve the Federal building. In addition, construction equipment parking and storage has also spilled over into this lot, further reducing available spaces. This situation has placed a considerable burden on staff and patients, both financially and with reduced ease of access to the Clinic. The construction is planned to continue through 1995. Later in this paper, a recommendation will be discussed which may help to alleviate this problem.

Scott Air Force Base Medical Center.

The second component of overall area healthcare costs for DOD beneficiaries are the Scott Air Force Base Medical Center's expenditures. This medical treatment facility is the largest DOD hospital in the

St. Louis catchment area. Outpatient visits for Fiscal Year 1991 totalled 303,791. Admissions totalled 6,523. The Medical Center employs approximately 912 personnel. Information obtained from Scott Medical Center in its "Draft Managed Care Needs Assessment" (September 1992), indicates that total costs for all operations for Scott Medical Center for Fiscal Year 1991 were approximately \$66 million (Table 4). A breakdown of these expenses follows and are presented further at Appendix D.

---

**Scott Medical Center Obligations**

Fiscal Year 1991

Military Pay	\$32,784,600
Civilian Pay	6,068,200
Contract Hlth Svcs	1,871,200
Supplemental Care	2,137,800
Medical Supply	14,166,000
Facility Maintenance	1,366,200
Miscellaneous	<u>7,596,100</u>
Total Obligations	\$65,990,100

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**Table 4 Scott Medical Center Expenses**

The Medical Center currently, or at the time of publication of the "Draft Managed Care Needs Assessment," had no CHAMPUS-related expenditures which, therefore, is not included in the FY 1991 information.

The total number of patient encounters (outpatient visits and admissions) for Scott Medical Center were:  
 303,791 outpatient + 6,523 admissions = 310,314

encounters. The same source lists the total number of outpatient clinic visits in Fiscal Year 1991 as follows:

Outpatient Visits - FY 1991

<u>Active Duty</u>	<u>Dependent Act. Duty</u>	<u>Retirees</u>	<u>Dependent Retirees</u>	<u>Other</u>	<u>TOTAL</u>
87,339	112,320	44,153	56,533	3,446	303,791

Of these outpatient visits, the following specialties (shown in Table 5) are common to the Army Health Clinic and are used as a basis for comparison with the Clinic and CHAMPUS:

---

Scott Medical Center

Annual Outpatient Visits FY 1991

<u>Specialty</u>	<u>Annual Visits</u>
Primary Care	43,272
Pediatrics	30,708
*Family Practice	26,038
<u>Flight Medicine</u>	<u>28,884</u>
TOTAL	128,902

\*Family Practice is included here as an equivalent function of primary care that is not specifically delineated in the Army Clinic's workload.

---

**Table 5     Scott Medical Center Visits**

Note: Since the beneficiary population is not expected to change within the catchment area, the demand for these primary care clinic visits is not expected to change should a realignment of the Army

Health Clinic occur.

Costs estimated for each of these outpatient visits as estimated through the Medical Expense Performance Reporting System (MEPRS) obtained from Scott Medical Center are shown in Table 6.

---

**Scott Medical Center**

**Outpatient Visit Costs for FY 1991**

<u>Specialty</u>	<u>Per Visit Cost</u>	<u>Number of Visits</u>	<u>Total Cost</u>
Primary Care	\$65	x 43,272	= 2,812,680
Pediatrics	52	x 30,708	= 1,596,816
Family Practice	117	x 26,038	= 3,046,446
Flight Medicine	46	x 28,884	= 1,328,664
Outpatient Cost GRAND TOTAL			\$8,784,606

---

**Table 6 Scott Outpatient Visit Costs**

The average outpatient visit (throughput) inclusive of all four categories listed above is:

$$\frac{\$8,784,606 \text{ total outpatient throughput cost}}{128,902 \text{ total outpatient visits}} =$$

\$69 per outpatient visit

Note: These costs are computed utilizing a step-down cost-accounting method which allocates all associated costs, to include administrative overhead, utilities, and ancillary support, to each particular cost-center within the facility.

CHAMPUS.

At the time of this writing, the Scott Air Force Base Medical Center is not a participant in the Department of Defense coordinated care initiative. Therefore, the Medical Center Commander does not have control over the CHAMPUS expenditures within the Scott catchment area, nor the ability to reallocate CHAMPUS funds in the effort to recapture some of the more costly procedures that are currently being paid under the CHAMPUS program. Interest in the Clinic realignment project stems from the fact that the Medical Center will be participating in the coordinated care program in the near future and that initiatives to provide care more efficiently must be investigated now. In order to grasp the value of the total cost of providing health care to DOD beneficiaries in the catchment area, an understanding of the costs of CHAMPUS expenditures (the third component of the total cost formula) must be included in this study.

Information on CHAMPUS utilization and expenditures for the Scott catchment area was obtained from the OCHAMPUS Information Systems Division (1992), through the Coordinated Care Directorate of the Scott Medical Center. Table 7 demonstrates a summary of

CHAMPUS visits and costs for Fiscal Year 1991 for the catchment area. A more complete list of patient visit categories and expenditures for this time period is, again, offered in Appendix B.

---

CHAMPUS Data for FY 1991

Scott Catchment Area

Beneficiary Visits

Active Duty Dependents	10,739
Retirees	2,472
<u>Retiree Dependents</u>	<u>5,210</u>
TOTAL Beneficiary Visits	18,308

Expenditures

Total Government Cost	\$13,649,342
<u>Total Patient Cost</u>	<u>4,645,705</u>
TOTAL Gov and Pt Cost	\$18,295,047

---

**Table 7 CHAMPUS Visits and Costs**

Note: These costs do not include the costs of pharmaceuticals dispensed through CHAMPUS, which are included in cost figures for the DOD facilities.

In terms of average per-visit costs for outpatient services, the following information is offered:

$$\frac{\$8,200,235 \text{ total patient and gov't cost}}{60,133 \text{ total outpatient visits}} =$$

\$137 per outpatient visit

If considering only government costs for CHAMPUS, excluding patient copays and deductibles, the average outpatient cost per visit equals \$88.

**Recapitulation of Costs.**

The total cost of providing health care for the beneficiary population within the Scott Medical Center catchment area is shown in Table 8.

---

Catchment Area Costs	
Army Health Clinic (- dental)	\$ 2,407,500
Scott Medical Center	65,990,100
*CHAMPUS (includes pt. costs)	<u>18,295,047</u>
<b>TOTAL Costs</b>	<b>\$86,692,647</b>

\*CHAMPUS costs do not include pharmaceuticals dispensed and reimbursed through CHAMPUS.

---

**Table 8 Total Catchment Area Costs**

A comparison of each of the three entities providing outpatient services is depicted in Table 9.

---

Army Health Clinic	\$105/visit
Scott Medical Center	\$69/visit
CHAMPUS (including pt. cost)	\$137/visit
CHAMPUS (gov't cost only)	\$88/visit

---

**Table 9 Average Outpatient Per Visit Costs**

Total outpatient costs for the catchment area for the specialties noted above are in Table 10.

---

Army Health Clinic (- Dental)	\$2,407,500
Scott Medical Center	8,784,606
<u>CHAMPUS</u>	<u>8,200,235</u>
<b>Total Area Outpatient Cost</b>	<b>\$19,392,341</b>

---

**Table 10 Total Catchment Area Otpt Costs**

Recapitulation of Visits.

Since the total number of patient visits is not expected to change significantly with a transfer of Clinic ownership, the following data is provided in order to give a perspective of catchment area workload. The total number of annual outpatient visits in the Scott catchment area are shown in Table 11.

---

Catchment Area Visits	
Army Health Clinic	22,911
*Scott Medical Center	128,902
<u>CHAMPUS</u>	<u>60,133</u>
TOTAL outpatient visits	211,946

\*Only includes family practice, pediatrics, flight medicine and primary care.

---

**Table 11 Total Catchment Area Visits**

From this information, the results of the cost effectiveness analysis can be drawn.

**Results**

The final phase of the cost-effectiveness analysis for the pre-alignment situation results in a ratio of costs over workload for the Clinic reflected in the following:

$$\frac{\$2,407,500 \text{ total outpatient Clinic costs}}{22,911 \text{ total outpatient Clinic visits}} = \$105 \text{ per outpatient visit}$$

As demonstrated earlier, the cost of providing services

for a single outpatient visit at the Clinic is substantially higher than the cost associated with a similar visit at the Scott Medical Center (approximately 152 percent of a Medical Center visit). While the information on cost allocations performed by the MEPRS system is not perfect, this result still reflects some inefficiency in Clinic operations.

Attention should also be drawn to the discovery that the Medical Center performs outpatient services at a lower cost to the government than does CHAMPUS. When patient co-pays and deductibles are included, the Medical Center performs these services at approximately 50 percent of the CHAMPUS charge.

#### Future Costs.

Realignment of the Clinic under the Air Force would be expected to have little quantifiable effect on the volume of patient visits either on CHAMPUS or the Medical Center until the implementation of its coordinated care program. Only the potential costs of providing the same amount of care at the Clinic under new ownership will be considered here.

Quantifying specific savings through realignment and/or relocation is, at best, speculation. However, one component of operating expense for the Clinic which

would be expected to be substantially reduced, if the relocation of the Clinic to the Jefferson Barracks Veterans Administration complex, is the rent expense. Until approval of this relocation is given, the costs and/or savings to be realized by doing business with the Veterans Administration cannot be calculated since these costs are dependent on future negotiations. Potential savings include VA/DOD sharing arrangements for laboratory procedures, x-ray procedures and radiology services, linen services, and hazardous waste disposal.

The future costs that can be discussed, however, are the potential costs per patient visit based on the historical outpatient visit costs at the Scott Medical Center. As shown earlier, an average outpatient visit in one of the primary care specialties equals approximately \$59, versus \$105 at the Health Clinic. Of course, there are advantages of economies of scale which help to reduce the average per-visit costs at the Medical Center that have not been possible at the Clinic. These economies of scale result from services ranging from laboratory and X-ray procedures to personnel. In the effort to be somewhat self-sufficient in providing primary care services,

equipment and personnel were maintained but not necessarily utilized at full capacity. One factor which made such self-sufficiency necessary was the substantial distance of the Clinic's supporting headquarters at Fort Leonard Wood.

Should the Clinic be realigned under the Scott Medical Center, the proximity would lend itself to sharing in the economies of scale enjoyed there in terms of X-ray, lab, pharmacy services, and administrative services.

It is clear from the CEA that the costs per outpatient visit at the Scott Medical Center are significantly lower than those of the Clinic. In an effort to provide a somewhat tangible figure for future costs, which assumes the benefits of economies of scale, shared services and simple proximity to higher headquarters (Scott Medical Center), it can reasonably be assumed that such costs per patient visit will fall somewhere between the current Medical Center costs and the current Clinic costs. As a general estimate of future costs of providing services for an average primary care visit at the Clinic under Scott Medical Center control, a liberal figure of \$87 will be used (this amount is the midpoint between Scott Medical

Center costs and Clinic costs). This amount assumes that, since the Clinic would remain external to the main facility, there would still be some duplication of services and personnel, but that many ancillary support procedures like X-ray readings, lab procedures and some administrative support could be performed at the main facility. Realizing that this cost does not differ tremendously from the CHAMPUS per visit government cost of \$88, the point of patient satisfaction must be considered.

While the \$88 government cost per CHAMPUS outpatient visit is of vital concern, the benefits offered to the patient must be considered. For the same visit that costs the government \$88, the patient pays \$49 (Table 9). It can reasonably be assumed, then, that if the government can provide the same service at the same government cost, while eliminating patient costs, patient satisfaction with the military health care system would improve. This situation could potentially result in better enrollment and empanelment for coordinated care programs in the area, allowing the Medical Center the opportunity to better control CHAMPUS expenditures.

Applying the \$87 figure to the current volume of patient visits, the costs for operating the Clinic would be estimated as follows:

$$\$87 \text{ per visit} \times 22,991 \text{ visits} = \$2,000,217$$

This future cost estimate, compared to the current cost of operating the Clinic (\$2,407,500 less Dental), represents a \$407,283 cost-avoidance. Of course, such future cost estimates cannot be perfectly predicted but serve to give generalizations of potential savings.

In determining whether the efficiency of the provision of health care in the St. Louis area would improve, as determined in the above quantitative analysis, the overall savings achieved through such a realignment are potentially significant, which tends to lead to greater efficiency. While such a transfer would likely not cost the Department of Defense more for maintaining current levels of care, the projected potential savings, in the short term, amounts to \$407,283 from a total expenditure in excess of \$86 million; a savings of 0.5 percent (2.1 percent per outpatient visit), if the estimate is correct. Therefore, the answer to management question as indicated is in the affirmative; that realigning the Clinic under the Air Force and/or relocating the Clinic

will improve the efficiency of providing health care in the catchment area.

One could argue that any savings that could be realized if the Air Force assumed control of the Clinic could also be achieved through keener management by the Army but, again, cost is not the sole issue. What is left now is to determine the potential value of the realignment in terms of qualitative management issues beyond those of simple per visit costs.

#### Discussion

While the cost-effectiveness analysis favors the realignment of the Clinic, there are other criteria to be considered that may affect the recommendation for action. Most notably, these criteria include: coordinated care, patient access and satisfaction, and unity of effort.

#### Coordinated Care.

In an address to key leaders of the Army Medical Department at the Gateway to Care "Make it Happen" conference, Mr. Martin Kappert stated that "...two entry points cannot work in coordinated care" (1993). Mr. Kappert, the Deputy Assistant Secretary, Health Service Financing, Office of the Assistant Secretary of Defense, Health Affairs, struck the essence of one of

the key considerations of the realignment of the Clinic. Although the Scott Medical Center is not currently involved in a managed care program implementation phase, such participation is inevitable and plans for this move must now be formulated.

The key to the success of the coordinated care initiative is the improvement of the efficiency with which DOD medical facilities provide health care. Of course, there are numerous approaches to improving efficiency. Smart "at risk" business agreements with external providers, trimming unnecessary costs from internal operations, and case management are some of the approaches to achieving greater efficiency. One of the most important and, thus, necessary approaches is gaining the control and cooperation of the health care consumer - the patient.

The coordinated care program focuses on the enrollment and empanelment of patients into a "cooperative" arrangement where patients agree to restrict their use of services by relying on the medical direction provided by their assigned primary care "gatekeeper" physician. This primary care physician, then, becomes the patient's "point of entry" into the DOD health care system. In a coordinated care

environment where a hospital commander has control of all fiscal resources, including CHAMPUS funds, in his/her catchment area, the empaneled physician makes appropriate judgements as to the best course of treatment for the patient. This judgement considers the best, but most cost-effective care that can be provided for the patient before allocating resources for that patient's care. In the continuum of the coordinated care program, available in-house resources are balanced with available and price-negotiated services external to the hospital when determining where the empanelled patient should get care. To make this program work, the hospital commander who must have control over the resources in the catchment area must also have control over the directing physicians, or points-of-entry, to ensure that the use of these resources is in concert with his/her managed care objectives.

With two Services operating health care facilities in the same catchment area, there are essentially two points-of-entry. It then becomes difficult for the one commander (Air Force) who controls the coordinated care program to control the use of resources demanded by the Army's primary care physicians at the Clinic. While

the goal of Scott Medical Center will be to empanel all catchment area beneficiaries to specific "gatekeepers" in the effort to direct care efficiently, the Army Clinic's staff is not subject to the implications of this program. This situation has the potential to result in patients (as a matter of convenience) using two different points-of-entry into the DOD health care system, under the direction of different Services. Maintaining the Army Clinic in an Air Force catchment area would disrupt Scott Medical Center's coordinated care effort and has the potential to inhibit a patient's continuum of care by having multiple providers.

Patient access.

Always the primary objective of the military health care system, patient care is an important consideration in the realignment issue. Access is perhaps the most widely recognized aspect of patient care. The presence or absence of barriers to access have several effects on the health care system which exists to support its patients. Such barriers are perceived to exist on two levels in the Army Health Clinic. The first level is at the Clinic location itself. The second is in the relationship between the

Clinic and the Medical Center.

The perceived barrier to access at the Clinic itself is the patient parking arrangement. As discussed earlier, the Clinic is located in the heart of downtown St. Louis, a major metropolitan city. This area is congested with major high-rise office complexes, hotels, convention centers, athletic facilities, tourist attractions, and shopping centers. All of this activity contributes to significant competition for an inadequate number of parking spaces. What parking is available comes at a price. In the immediate vicinity of the Clinic, the cost is \$2.50 per day, or any fraction thereof. Still, this parking is in short supply which causes most patients to park in distant lots at higher prices. This situational cost equates to a "user fee," or barrier, for the patients seeking care at the Clinic. Several articles refer to barriers such as cost and location as having negative effects on efficient, cost-effective health care (Lewis, Fein & Mechanic, 1976; Harkin, 1991; Friedman, 1984). Typically, when patients are inhibited by such barriers, they will delay seeking medical care while the affliction is in its earliest sub-acute (and least expensive to treat) stages. The natural follow-on to

this scenario is that the patient gets worse and finally seeks care when the affliction reaches more serious and expensive proportions.

The optimum goal of improving access is best described by Penchansky and Thomas (1981) as the "fit" between the patient and their health care provider. This fit includes five components: 1) availability of existing services, 2) accessibility of these services to the patient, 3) accommodation, or the ease with which a patient can get an appointment, 4) affordability of the service to the patient, and 5) acceptance to each other by both the patient and the provider. The "fit" involving the Clinic could be particularly improved in a couple of these aspects without diminishing the others.

One of these aspects is accessibility. By relocating the Clinic to a less-congested area, patients will be better able to travel to the Clinic without fighting constant traffic congestion.

The other aspect is affordability. If the Clinic could provide free parking to patients, as is provided to equal beneficiaries who are located on or near DOD installations, the tendency to seek care when illness is most easily treatable could be enhanced. In the

long-term, this measure could potentially reduce some costs of care.

As mentioned earlier, the second level of access to care is that which is between the Clinic and the Scott Medical Center. If considered with the Penchansky and Thomas definition of access, this aspect would be one of accommodation. In a study conducted at the Clinic, it was observed that sometimes there is a perception of reluctance on the part of some of the Medical Center staff when patients linked to the Army and the Army Clinic present themselves for care. The required care is, of course, always provided by the Medical Center. The problem exists with the patient's perception of this reluctance, which leads to a perceived lack of accommodation and, therefore, inhibited access. This accommodation could reasonably be expected to improve if clearer roles of responsibility for the provision of care were delineated and controlled. This point leads to the third qualitative consideration for realignment.

Unity of effort.

Nearly every author who has written about leadership, either in war or in business, will attest to the notion that unity of effort is essential in

accomplishing the organization's goals. Achieving this unity is essential to steering the team toward a concerted effort. In the military environment, unity of effort is usually facilitated by unity of command. The Commander's goals become the organization's goals and all efforts lead toward the same objectives.

The current situation in St. Louis does not contribute to a unity of effort between the Army Clinic and the Air Force Medical Center. Under a coordinated care program, the Medical Center Commander must have control over all military health care assets in the catchment area in order to best allocate resources and provide the most efficient care. With elements falling under two different Services, neither Commander formally answers to the other, and use of valuable resources may not be in concert with the global plan. With this element in mind, one could reason that a realignment would be beneficial to the health care system and to the patient. Such a move would place one responsible and accountable entity in control of the overall effort to provide cost-effective, quality care in the entire catchment area. In this catchment area, this would be the senior DOD medical commander.

### Conclusions

From the results of the quantitative cost-effectiveness analysis, it has been seen that a realignment of the Army Clinic under the Air Force could be expected to achieve a reasonable cost-avoidance. This conclusion is drawn from the assumption that patient populations would not change, and the demand for care would not appreciably change. Staffing and equipment requirements for providing that care could possibly be reduced or shared with the main facility. However, if the estimate of improving efficiency and reducing costs by moving the Clinic to the Jefferson Barracks VA complex is reasonable, the savings alone could finance the hiring of staff which could enhance the coordinated care effort. Even if there were no significant savings realized in the near-term, there is potential for substantial savings in the long-term as coordinated care is implemented and management of patients ensues.

A conclusion is also drawn that, through the benefits of unity of command, more efficient care could be provided to DOD beneficiaries. Realignment of the Clinic would facilitate this effort.

A final conclusion from this discussion is that patient access would be enhanced through the relocation of the Health Clinic, regardless of which Service operates it. As discussed earlier, the better the "fit" between the patient and the health care system, the better the chance for a satisfactory continuum of care, which benefits both the patient and the provider.

#### **Recommendations**

There are three possible courses of action for the provision of care in the St. Louis area: 1) keep everything as it is, 2) maintain Army control of the Clinic but move its location, and 3) realign the Clinic under the Air Force.

#### **Keep everything as it is.**

This course of action is, of course, the simplest to implement. Keeping the current system intact, however, is not the best alternative. If accepted, access to care would continue to suffer, and perhaps erode as Scott Medical Center implements its coordinated care program. Patients will continue to experience barriers to care which beneficiaries located on military installations do not encounter. Current marginal levels of coordination and cooperation between the two Services in the catchment area could be

expected to continue. The natural competitive atmosphere between the Services will continue to have a negative impact on the need for unity of effort.

Maintain Army control but change location.

The arguments against maintaining Army control of the Clinic are the same as those noted above. One option, as had been mentioned earlier however, is for the Army to move the location of the Clinic. Regardless of which Service controls the Clinic, the recommendation to change its location must be made here. Although other locations within the St. Louis area may exist, the opportunities offered at the Jefferson Barracks Veterans Administration complex seem to be the most advantageous for the Clinic. This location is approximately ten miles from the current location, still about the same distance from Scott Air Force Base. The area does not experience any level of congestion nearing the magnitude of the current downtown location. Parking for patients is free, and there are ample spaces. Through a tour of the facility with the local Assistant Director, it was observed that the main hospital building and most of the attached buildings have been newly renovated and are substantially vacant. There were several opportune

sites for the Clinic relocation.

Being somewhat anxious to improve on the utilization of the facilities, the VA expressed a strong desire to cooperate with DOD if such a proposal were to develop. VA/DOD agreements could be reached for significant reductions in what is currently being paid for rent in the Clinic's current location, as had been discussed earlier in this paper. Other opportunities exist for other VA/DOD sharing arrangements which could substantially reduce the operating costs of the Clinic. Such services could include laboratory services, radiology services, linen services and waste disposal services. Relocation of the Army Dental Clinic could also be accommodated in this facility. Food service facilities already exist for the staff and visiting patients. Working in proximity with the VA health care providers, the collegial and consultative interactions between the DOD and VA providers would enhance the overall health care environment, both for the staff and for the patient.

Realign the Clinic under the Air Force.

Realignment of the Army Health Clinic under the Air Force is the primary recommendation resulting from this study. While an immediate financial benefit is

possible through economies of scale in pharmacy, lab, X-ray, and administration services by improving the proximity of the headquarters, the qualitative aspects of this change also point to this alternative as the most favorable. The driving force for this recommendation is the coordinated care issue which necessitates the need for unity of effort, coordination of assets, patient satisfaction, and quality of care. Attaining such unity could be achieved under two separate Services, but at greater cost of managerial effort than would be realized under realignment. Such a transfer also places the command and control headquarters in substantially closer proximity to the Clinic than its current headquarters. From a management and quality assurance perspective, this closer proximity makes this alternative most attractive.

Adjunct to the recommendation for realignment is the recommendation to relocate the Clinic to Jefferson Barracks for the reasons stated earlier. This action should be seriously considered by either Service that ultimately controls the Clinic.

If accomplished, the Air Force would have much to gain from the ability to control costs and improve

efficiency when it begins to implement coordinated care. Enrolling and empaneling beneficiaries would be much more efficient if only one agency were involved. Coordinating patient care plans could only be enhanced if only one agency could control the points of access to the system.

If the recommendation to realign the Clinic is accepted, it is suggested that the best time to make the change is prior to the initiation of the full-scale coordinated care program at Scott Medical Center. This action would allow all beneficiaries, whether Army, Air Force, Navy, or other eligible Services, to compete equally for inclusion in initial patient panels. Additionally, the Air Force would have a greater opportunity to assess its true beneficiary population and usage patterns by having access to all of the beneficiaries and by establishing an effective rapport with its supported population.

Transferring control of the Clinic and its assets to the Air Force has the potential to significantly improve the efficiency of the provision of health care to beneficiaries in the St. Louis area. Conservative estimates demonstrate potential reduced costs approaching one-half million dollars. Improved patient

access and better coordination of services will reduce redundancy in the system and result in greater success in the Air Force coordinated care effort. Providing care under the direction of one commander will afford unity in the effort to meet patient care goals.

In all, this realignment stands to gain much more in the efficiency of catchment area health care than would be achieved by maintaining the current organization. At a time when cooperation across Service lines is becoming more and more desirable, the recommendations presented in this study allow for not only Army involvement, but also a collaborative effort with the Air Force and the Veterans Administration. In this time of change and fiscal constraints, the government can afford no less.

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**APPENDIX A**

**DEFINITIONS**

**CATCHMENT AREA** - A defined area with an approximate 40-mile radius around a Department of Defense hospital. This area is typically regarded as the local management area for the hospital commander.

**COORDINATED CARE** - The Department of Defense health care program that strives to enhance the efficiency of providing care to beneficiaries through a careful balance of military health care capabilities and local civilian services.

**COST-BENEFIT ANALYSIS** - An analysis which compares the costs versus benefits of courses of action which are not necessarily similar. (pg. 4)

**COST-EFFECTIVENESS ANALYSIS** - An analysis which compares the costs versus the effectiveness of courses of action which are of a similar nature. (pg. 5)

**DESCRIPTIVE RESEARCH** - To describe systematically the facts and characteristics of a given population or area of interest, factually and accurately.

**ENROLLMENT** - The process of registering beneficiaries who wish to participate in the coordinated care program. Data from this registration is used for empanelment.

**EMPANELMENT** - The process of assigning enrollees to a specific health care provider. This action gives the patient a specific primary care provider who assumes the responsibility for managing the patient's health care needs.

**GATEWAY TO CARE** - The name for the Department of the Army coordinated care program.

APPENDIX B

CATEGORY OF CARE	ADVERSE REACTIONS		ALLERGY	INTERNAL MEDICINE (DISEASE)		DERMATOLOGY		ENDOCRINOLOGY		GASTRO-ENTEROLOGY		HEMATOLOGY
	NO.	COST		NO.	COST	NO.	COST	NO.	COST	NO.	COST	
<b>I. INPATIENT HOSPITAL SERVICES</b>												
USER BENEFICIARIES	23		6	81	11	10	1	16	27	9		
DEPT OF ACT DUTY SPONSOR	1		0	19	1	1	1	3	1	3		
REPT OF RET OR DEC SPONSOR	1		0	19	1	1	1	3	1	3		
TOTAL HOSPITAL ADMISSIONS	12		12	200	2	2	2	6	6	6		
NUMBER OF VISITS	3		3	7	7	6	10	10	10	10		
AVERAGE LENGTH OF STAY (DAYS)	3.0		3.0	7.5	7.5	6.0	10.0	10.0	10.0	10.0		
TOTAL GOVERNMENT COST	43,776		34,119	97,612	1,265.51	1,265.51	1,265.51	1,265.51	1,265.51	1,265.51		
TOTAL PATIENT COST	8,277		2,756	1,177								
TOTAL GOVT AND PATIENT COST	52,053		36,875	98,789								
AVG GOVT COST PER DAY	1,815.01		2,897.79	1,265.51								
<b>II. INPATIENT PROFESSIONAL SERVICES</b>												
USER BENEFICIARIES	14		17	188	1	1	1	15	101	17		
DEPT OF ACT DUTY SPONSOR	1		0	129	1	1	1	1	1	1		
REPT OF RET OR DEC SPONSOR	1		0	100	1	1	1	1	1	1		
TOTAL GOVERNMENT COST	11,815		4,408	349,836	3,076	3,076	3,076	3,076	3,076	3,076		
TOTAL PATIENT COST	11,815		4,408	349,836	3,076	3,076	3,076	3,076	3,076	3,076		
TOTAL GOVT AND PATIENT COST	23,630		8,816	699,672	6,152	6,152	6,152	6,152	6,152	6,152		
AVG GOVT COST PER DAY	2,679.52		3,803.83	1,265.51								
<b>III. TOTAL INPATIENT SERVICES</b>												
USER BENEFICIARIES	44		23	269	17	17	17	15	113	32		
DEPT OF ACT DUTY SPONSOR	2		0	113	4	4	4	4	2	2		
REPT OF RET OR DEC SPONSOR	2		0	113	4	4	4	4	2	2		
TOTAL HOSPITAL ADMISSIONS	15		15	429	6	6	6	16	12	12		
NUMBER OF VISITS	55		39	1,197	18	18	18	14	128	20		
AVERAGE LENGTH OF STAY (DAYS)	11.607		4,240	1,197	18	18	18	14	128	20		
TOTAL GOVERNMENT COST	66,779		42,756	1,197	1,197	1,197	1,197	1,197	1,197	1,197		
TOTAL PATIENT COST	2,679.52		3,803.83	1,197	1,197	1,197	1,197	1,197	1,197	1,197		
TOTAL GOVT AND PATIENT COST	69,458.52		46,560	2,394	2,394	2,394	2,394	2,394	2,394	2,394		
AVG GOVT COST PER DAY	5,979.52		8,803.83	1,265.51								
<b>IV. OUTPATIENT PROFESSIONAL SERVICES</b>												
USER BENEFICIARIES	77		51	1,477	17	17	17	15	113	32		
DEPT OF ACT DUTY SPONSOR	4		0	529	4	4	4	4	2	2		
REPT OF RET OR DEC SPONSOR	4		0	529	4	4	4	4	2	2		
TOTAL GOVERNMENT COST	20,274		1,218	2,725	1,477	1,477	1,477	1,477	1,477	1,477		
TOTAL PATIENT COST	20,274		1,218	2,725	1,477	1,477	1,477	1,477	1,477	1,477		
TOTAL GOVT AND PATIENT COST	40,548		2,436	5,450	2,954	2,954	2,954	2,954	2,954	2,954		
AVG GOVT COST PER VISIT	525.94		473.46	1,265.51								
<b>V. OUTPATIENT CARE COST SHARED AS INPATIENT</b>												
USER BENEFICIARIES	1		0	0	2	2	2	0	4	2		
DEPT OF ACT DUTY SPONSOR	1		0	0	2	2	2	0	4	2		
REPT OF RET OR DEC SPONSOR	1		0	0	2	2	2	0	4	2		
TOTAL GOVERNMENT COST	20,274		1,218	2,725	1,477	1,477	1,477	1,477	1,477	1,477		
TOTAL PATIENT COST	20,274		1,218	2,725	1,477	1,477	1,477	1,477	1,477	1,477		
TOTAL GOVT AND PATIENT COST	40,548		2,436	5,450	2,954	2,954	2,954	2,954	2,954	2,954		
<b>VI. TOTAL INPATIENT AND OUTPATIENT CARE</b>												
USER BENEFICIARIES	75		51	1,527	17	17	17	15	113	32		
DEPT OF ACT DUTY SPONSOR	4		0	529	4	4	4	4	2	2		
REPT OF RET OR DEC SPONSOR	4		0	529	4	4	4	4	2	2		
TOTAL GOVERNMENT COST	116,176		48,664	1,444,139	1,477	1,477	1,477	1,477	1,477	1,477		
TOTAL PATIENT COST	116,176		48,664	1,444,139	1,477	1,477	1,477	1,477	1,477	1,477		
TOTAL GOVT AND PATIENT COST	232,352		97,328	2,888,278	2,954	2,954	2,954	2,954	2,954	2,954		
NOTE: REFER TO PAGE 1 (SPECIFICATIONS PAGE) OF THIS REPORT FOR CLARIFICATION OF THE DATA WHICH APPEARS ON THIS REPORT.												

CHAMPUS HEALTH CARE SUMMARY BY PRIMARY DIAGNOSIS  
COLLECTION PERIOD: 15 MONTHS  
BASED ON CARE RECEIVED FROM OCT 1990 THRU SEP 1991  
UNDUPLICATED  
MODE: 78, SENE 219

CHAMPUS HEALTH CARE RECEIVED FROM OCT 1990 THRU SEP 1991  
UNDUPLICATED  
MODE: 78, SENE 219

	INFECTIOUS DISEASE	NEPHROLOGY	NEUROLOGY	NUTRITIONAL	PULMONARY RESPIRATORY	RHEUMATOLOGY	OTHER
<b>I INPATIENT HOSPITAL SERVICES</b>							
<b>USER BENEFICIARIES</b>							
DEPT OF ACT DUTY SPONSOR	10	0	32	0	59	8	42
RETIREE	1	2	15	0	14	4	4
DEPT OF RET OR DEC SPONSOR	1	2	12	0	16	4	10
TOTAL HOSPITAL ADMISSIONS	13	4	14	0	16	8	24
AVERAGE LENGTH OF STAY (DAYS)	5.47	3.00	14.56	0.00	3.25	7.0	11.9
AVERAGE DAILY PATIENT COST	120,376	4,009	4,450	0.00	5,032	8,75	2,443
TOTAL PATIENT COST	1,581,802	22,662	150,435	0.00	229,516	33,924	59,088
TOTAL GOVERNMENT COST	1,291,178	3,310	19,863	0.00	167,933	12,964	11,092
TOTAL PATIENT AND GOVERNMENT COST	2,872,980	25,972	170,298	0.00	286,449	46,888	70,180
AVG GOVT COST PER ADMISSION	7,060.94	2,832.75	4,701.09	0.00	2,861.30	4,240.50	1,231.00
AVG GOVT COST PER DAY	1,294.37	2,708.19	1,030.36	0.00	3,685.12	4,484.63	1,496.54
<b>II INPATIENT PROFESSIONAL SERVICES</b>							
<b>USER BENEFICIARIES</b>							
DEPT OF ACT DUTY SPONSOR	16	16	77	6	212	29	126
RETIREE	4	5	33	2	56	0	27
DEPT OF RET OR DEC SPONSOR	103	46	128	14	78	15	41
NUMBER OF VISITS	103	46	651	70	576	70	236
NUMBER OF NON-VISIT SERVICES	6,467	2,351	45,501	2,200	653	37,154	166
TOTAL GOVERNMENT COST	1,871	5,033	45,501	2,507	56,244	24,644	26,104
TOTAL PATIENT COST	8,341	7,384	24,337	2,607	31,245	40,644	26,067
TOTAL GOVT AND PATIENT COST	10,212	12,417	69,838	5,114	87,489	65,288	52,171
<b>III TOTAL INPATIENT SERVICES</b>							
<b>USER BENEFICIARIES</b>							
DEPT OF ACT DUTY SPONSOR	12	21	82	6	235	29	161
RETIREE	4	7	34	2	67	1	30
DEPT OF RET OR DEC SPONSOR	4	8	14	1	14	15	47
NUMBER OF VISITS	126,846	27,695	192,935	2,107	285,708	71,078	83,192
NUMBER OF NON-VISIT SERVICES	10,676	5,661	21,719	507	86,038	12,608	37,160
TOTAL GOVERNMENT COST	137,522	33,356	224,654	2,607	373,798	126,686	120,352
TOTAL PATIENT COST	7,461,441	3,661,869	9,029,222	0.00	4,465,000	9,864,75	1,733,17
TOTAL GOVT AND PATIENT COST	7,598,963	3,695,225	13,273,876	0.00	4,838,800	10,729,500	1,866,349
AVG GOVT COST PER ADMISSION	73.44	162.82	127.88	0.00	50.73	150.73	92.12
AVG GOVT COST PER VISIT	73.44	162.82	127.88	0.00	50.73	150.73	92.12
<b>IV OUTPATIENT PROFESSIONAL SERVICES</b>							
<b>USER BENEFICIARIES</b>							
DEPT OF ACT DUTY SPONSOR	758	49	696	18	1,002	625	1,859
RETIREE	55	29	314	0	354	183	1,151
DEPT OF RET OR DEC SPONSOR	179	17	124	4	799	472	472
NUMBER OF VISITS	830	176	1,840	21	2,864	1,286	2,201
NUMBER OF NON-VISIT SERVICES	856	274	1,155	1,149	4,487	1,894	2,592
TOTAL GOVERNMENT COST	59,707	12,957	235,106	1,649	318,902	65,244	202,765
TOTAL PATIENT COST	83,563	16,931	359,018	2,791	180,902	55,172	135,605
TOTAL GOVT AND PATIENT COST	143,270	29,888	594,124	4,440	499,804	120,416	338,370
AVG GOVT COST PER VISIT	17.08	162.82	127.88	0.00	50.73	150.73	92.12
<b>V OUTPATIENT CARE COST SHARED AS INPATIENT</b>							
<b>USER BENEFICIARIES</b>							
DEPT OF ACT DUTY SPONSOR	0	0	5	0	0	0	0
RETIREE	0	0	0	0	0	0	0
DEPT OF RET OR DEC SPONSOR	0	0	0	0	0	0	0
NUMBER OF VISITS	0	0	0	0	0	0	0
NUMBER OF NON-VISIT SERVICES	0	0	0	0	0	0	0
TOTAL GOVERNMENT COST	0	0	0	0	0	0	0
TOTAL PATIENT COST	0	0	0	0	0	0	0
TOTAL GOVT AND PATIENT COST	0	0	0	0	0	0	0
<b>VI TOTAL INPATIENT AND OUTPATIENT CARE</b>							
<b>USER BENEFICIARIES</b>							
DEPT OF ACT DUTY SPONSOR	742	64	727	17	1,130	636	1,967
RETIREE	123	14	137	0	1,201	182	1,273
DEPT OF RET OR DEC SPONSOR	180	17	124	4	799	472	472
NUMBER OF VISITS	186,480	40,094	422,237	3,249	604,250	136,232	285,227
NUMBER OF NON-VISIT SERVICES	24,284	13,919	45,943	1,149	289,740	126,700	355,704
TOTAL GOVERNMENT COST	242,764	63,913	478,047	3,798	604,250	136,232	285,227
TOTAL PATIENT COST	7,348,200	3,627,311	13,273,876	0.00	4,838,800	10,729,500	1,866,349
TOTAL GOVT AND PATIENT COST	7,590,964	3,691,224	13,751,923	3,798	5,443,050	10,865,732	2,151,576

NOTE: REFER TO PAGE I (SPECIFICATIONS PAGE) OF THIS REPORT FOR CLARIFICATION OF THE DATA WHICH APPEARS ON THIS REPORT.

CHAMPUS HEALTH CARE SUMMARY BY PRIMARY DIAGNOSIS  
 BASED ON CARE RECEIVED FROM OCT 1990 THRU SEP 1991  
 055 - SCOTT AFB, IL

UNDUPLICATED  
 \*\*\*\*\* CATEGORY OF CARE \*\*\*\*\*

PAGE: 04  
 COLLECTION PERIOD: 15 MONTHS

	DENTAL	OBSTETRICS	GYNCOLOGY	OPHTHALMOLOGY	PSYCHIATRY GROUP 1	PSYCHIATRY GROUP 2	SPECIAL PEDIATRICS
<b>I INPATIENT HOSPITAL SERVICES</b>							
USER BENEFICIARIES	15	48	15	5	165	82	10
DEPT OF ACT DUTY SPONSOR	38	10	0	1	11	51	0
RELIEE	10	10	1	1	15	11	0
NUMBER OF VISITS	167	146	14	1	199	126	15
NUMBER OF RET OR DEC SPONSOR	3	3	3	2	5	3	14
TOTAL HOSPITAL DAYS	74,961	74,961	0	0	29,066	35,070	14,000
AVERAGE DAILY PATIENT LOAD	83,229	83,229	0	0	15,894	10,422	0
TOTAL GOVERNMENT COST	5,217	8,529	6,709	6,709	1,241,369	1,532,222	247,661
TOTAL PATIENT COST	2,111	8,145	13,659	13,659	1,595,516	1,595,516	247,661
TOTAL GOVT AND PATIENT COST	7,328	16,674	20,368	20,368	2,836,885	3,130,738	495,322
AVG GOVT COST PER DAY	2,412.00	1,448.87	1,586.11	1,609.91	17,194.47	12,350.47	35,114.64
AVG GOVT COST PER VISIT	2,412.00	1,448.87	1,586.11	1,609.91	10,368.66	7,777.38	21,608.19
<b>II INPATIENT PROFESSIONAL SERVICES</b>							
USER BENEFICIARIES	1	152	42	16	180	27	29
DEPT OF ACT DUTY SPONSOR	1	0	0	0	102	10	27
RELIEE	1	0	0	0	102	10	27
NUMBER OF VISITS	23	23	22	19	162	9	9
NUMBER OF RET OR DEC SPONSOR	766	766	127	719	2,595	962	360
TOTAL HOSPITAL DAYS	97,824	97,824	23,024	10,986	160,891	63,836	150
AVERAGE DAILY PATIENT LOAD	132,809	132,809	26,274	13,850	48,180	33,227	350
TOTAL GOVERNMENT COST	3,764	97,824	23,024	10,986	160,891	63,836	150
TOTAL PATIENT COST	3,764	97,824	23,024	10,986	160,891	63,836	150
TOTAL GOVT AND PATIENT COST	7,528	195,648	46,048	21,972	321,782	127,672	300
AVG GOVT COST PER DAY	4,292.50	1,032.71	1,086.70	1,608.64	2,009.07	77,278	36,115
AVG GOVT COST PER VISIT	4,292.50	1,032.71	1,086.70	1,608.64	1,268.66	77,278	36,115
<b>III TOTAL INPATIENT SERVICES</b>							
USER BENEFICIARIES	161	192	48	17	344	137	32
DEPT OF ACT DUTY SPONSOR	49	20	20	1	139	20	29
RELIEE	29	20	0	0	20	16	0
NUMBER OF VISITS	173,968	173,968	99,268	17,695	2,074,260	1,305,206	282,898
NUMBER OF RET OR DEC SPONSOR	23,627	23,627	42,857	19,815	1,197,297	1,197,297	282,898
TOTAL HOSPITAL DAYS	236,274	236,274	92,577	37,510	2,565,516	1,672,285	350
AVERAGE DAILY PATIENT LOAD	1,032.71	1,032.71	1,086.70	1,608.64	1,268.66	1,268.66	36,115
TOTAL GOVERNMENT COST	4,292.50	1,032.71	1,086.70	1,608.64	2,009.07	77,278	300
TOTAL PATIENT COST	4,292.50	1,032.71	1,086.70	1,608.64	2,009.07	77,278	300
TOTAL GOVT AND PATIENT COST	8,585.00	2,065.42	2,173.40	3,217.28	4,018.14	154,556	600
AVG GOVT COST PER DAY	4,292.50	1,032.71	1,086.70	1,608.64	2,009.07	77,278	300
AVG GOVT COST PER VISIT	4,292.50	1,032.71	1,086.70	1,608.64	1,268.66	77,278	36,115
<b>IV OUTPATIENT PROFESSIONAL SERVICES</b>							
USER BENEFICIARIES	82	10	52	1,461	729	876	155
DEPT OF ACT DUTY SPONSOR	57	0	6	251	355	560	158
RELIEE	22	0	293	251	288	256	122
NUMBER OF VISITS	69	69	293	3,664	2,042	256	122
NUMBER OF RET OR DEC SPONSOR	74	74	127	6,447	8	8	122
TOTAL HOSPITAL DAYS	7,269	7,269	197,229	1,046	312,177	414,208	1,020
AVERAGE DAILY PATIENT LOAD	4,455	4,455	1,066.37	1,046	165,110	191,295	42,229
TOTAL GOVERNMENT COST	115.45	115.45	303,166	5,672.27	484,687	606,193	25,116
TOTAL PATIENT COST	115.45	115.45	303,166	5,672.27	484,687	606,193	25,116
TOTAL GOVT AND PATIENT COST	230.90	230.90	606,332	11,344.54	969,374	1,212,386	50,232
AVG GOVT COST PER VISIT	115.45	115.45	1,086.70	1,608.64	1,268.66	77,278	36,115
<b>V OUTPATIENT CARE COST SHARED AS INPATIENT</b>							
USER BENEFICIARIES	0	18	11	8	0	0	0
DEPT OF ACT DUTY SPONSOR	0	0	0	0	0	0	0
RELIEE	0	0	0	0	0	0	0
NUMBER OF VISITS	0	0	0	0	0	0	0
NUMBER OF RET OR DEC SPONSOR	0	0	0	0	0	0	0
TOTAL HOSPITAL DAYS	0	0	0	0	0	0	0
AVERAGE DAILY PATIENT LOAD	0	0	0	0	0	0	0
TOTAL GOVERNMENT COST	0	0	0	0	0	0	0
TOTAL PATIENT COST	0	0	0	0	0	0	0
TOTAL GOVT AND PATIENT COST	0	0	0	0	0	0	0
<b>VI TOTAL INPATIENT AND OUTPATIENT CARE</b>							
USER BENEFICIARIES	24	175	649	1,466	842	239	354
DEPT OF ACT DUTY SPONSOR	54	33	337	251	443	599	178
RELIEE	22	29	307	386	347	279	125
NUMBER OF VISITS	16,551	196,246	265,964	375,407	2,323,437	1,720,216	325,137
NUMBER OF RET OR DEC SPONSOR	10,449	46,196	148,901	205,691	2,323,437	358,102	27,226
TOTAL HOSPITAL DAYS	27,070	233,142	414,865	201,098	2,850,244	3,078,218	352,363
TOTAL GOVERNMENT COST	11,545	2,065.42	2,173.40	3,217.28	4,018.14	154,556	600
TOTAL PATIENT COST	11,545	2,065.42	2,173.40	3,217.28	4,018.14	154,556	600
TOTAL GOVT AND PATIENT COST	23,090	4,130.84	4,346.80	6,434.56	8,036.28	309,112	1,200

NOTE: REFER TO PAGE 1 (SPECIFICATIONS PAGE) OF THIS REPORT FOR CLARIFICATION OF THE DATA WHICH APPEARS ON THIS REPORT.

CHAMPS HEALTH CARE SUMMARY BY PRIMARY DIAGNOSIS  
BASED ON CARE RECEIVED FROM OCT 1990 THRU SEP 1991

UNDUPLICATED GRAND TOTAL FOR ALL CATEGORIES

NUMBERS-007 (CHS-169)  
RUN DATE: 02 JUN 1992  
RUN TIME: 02:15:14  
JOB: 78 DENE Z18

COLLECTION PERIOD: 15 MONTHS

	EAR, NOSE AND THROAT	GENERAL SURGERY	NEURO-SURGERY	ORTHOPEDICS	THORACIC SURGERY	UROLOGY
<b>I INPATIENT HOSPITAL SERVICES</b>						
<b>USER BENEFICIARIES</b>	16	78	25	46	21	806
REVENUE OF ACT DUTY SPONSOR	11	10	12	22	4	429
REVENUE OF RET OR DEC SPONSOR	1	140	1	24	1	228
NUMBER OF VISITS	17	27	2	17	1	100
NUMBER OF NON-VISIT SERVICES	2	7	2	3	0	1
TOTAL GOVERNMENT COST	6	2	0	7	0	1
TOTAL PATIENT COST	64	998	134	466	39	6
TOTAL GOVT AND PATIENT COST	70	1004	134	473	39	7
AVERAGE DAILY PATIENT LOAD	0.02	0.02	0.02	0.02	0.02	0.02
AVERAGE LENGTH OF STAY (DAYS)	0.02	0.02	0.02	0.02	0.02	0.02
AVERAGE DAILY PATIENT COST	3511.23	5062.40	621.67	9396.71	1951.11	8513.79
AVERAGE GOVT COST PER DAY						
<b>II INPATIENT PROFESSIONAL SERVICES</b>						
<b>USER BENEFICIARIES</b>	47	194	44	118	43	1823
REVENUE OF ACT DUTY SPONSOR	2	4	1	2	1	10
REVENUE OF RET OR DEC SPONSOR	1	4	1	2	1	10
NUMBER OF VISITS	16	63	1	27	1	10
NUMBER OF NON-VISIT SERVICES	1	1	1	1	1	1
TOTAL GOVERNMENT COST	29	156	56	135	49	1
TOTAL PATIENT COST	39	229	85	172	77	1
TOTAL GOVT AND PATIENT COST						
<b>III TOTAL INPATIENT SERVICES</b>						
<b>USER BENEFICIARIES</b>	57	198	48	127	47	1720
REVENUE OF ACT DUTY SPONSOR	2	4	1	2	1	10
REVENUE OF RET OR DEC SPONSOR	1	4	1	2	1	10
NUMBER OF VISITS	17	70	1	27	1	10
NUMBER OF NON-VISIT SERVICES	2	7	2	3	0	1
TOTAL GOVERNMENT COST	32	156	56	135	49	1
TOTAL PATIENT COST	107	229	85	172	77	1
TOTAL GOVT AND PATIENT COST	139	385	141	307	126	2
AVERAGE DAILY PATIENT LOAD	0.02	0.02	0.02	0.02	0.02	0.02
AVERAGE LENGTH OF STAY (DAYS)	0.02	0.02	0.02	0.02	0.02	0.02
AVERAGE DAILY PATIENT COST	687.77	867.54	882.53	2401.50	2503.52	201.19
AVERAGE GOVT COST PER DAY						
<b>IV OUTPATIENT PROFESSIONAL SERVICES</b>						
<b>USER BENEFICIARIES</b>	5	1697	159	1046	1	17
REVENUE OF ACT DUTY SPONSOR	3	20	2	4	1	17
REVENUE OF RET OR DEC SPONSOR	1	25	1	4	1	17
NUMBER OF VISITS	1	25	1	4	1	17
NUMBER OF NON-VISIT SERVICES	1	7	1	1	1	1
TOTAL GOVERNMENT COST	4	22	1	4	1	17
TOTAL PATIENT COST	49	634	63	678	17	17
TOTAL GOVT AND PATIENT COST	53	656	64	722	18	34
AVERAGE DAILY PATIENT LOAD	0.01	0.01	0.01	0.01	0.01	0.01
AVERAGE LENGTH OF STAY (DAYS)	0.01	0.01	0.01	0.01	0.01	0.01
AVERAGE DAILY PATIENT COST	1072.00	221.55	100.84	1836.97	1574.00	200.00
AVERAGE GOVT COST PER VISIT						
<b>V OUTPATIENT CARE COST SHARED AS INPATIENT</b>						
<b>USER BENEFICIARIES</b>	24	7	0	17	4	107
REVENUE OF ACT DUTY SPONSOR	0	0	0	0	0	0
REVENUE OF RET OR DEC SPONSOR	0	0	0	0	0	0
TOTAL GOVERNMENT COST	26	7	0	28	4	119
TOTAL PATIENT COST	367	175	0	276	100	868
TOTAL GOVT AND PATIENT COST	26	175	0	291	100	223
<b>VI TOTAL INPATIENT AND OUTPATIENT CARE</b>						
<b>USER BENEFICIARIES</b>	5	1792	160	1086	1	18
REVENUE OF ACT DUTY SPONSOR	3	20	2	4	1	17
REVENUE OF RET OR DEC SPONSOR	1	25	1	4	1	17
NUMBER OF VISITS	1	25	1	4	1	17
NUMBER OF NON-VISIT SERVICES	1	7	1	1	1	1
TOTAL GOVERNMENT COST	4	22	1	4	1	17
TOTAL PATIENT COST	50	634	63	678	17	17
TOTAL GOVT AND PATIENT COST	54	656	64	722	18	34
AVERAGE DAILY PATIENT LOAD	0.01	0.01	0.01	0.01	0.01	0.01
AVERAGE LENGTH OF STAY (DAYS)	0.01	0.01	0.01	0.01	0.01	0.01
AVERAGE DAILY PATIENT COST	1072.00	221.55	100.84	1836.97	1574.00	200.00
AVERAGE GOVT COST PER VISIT						

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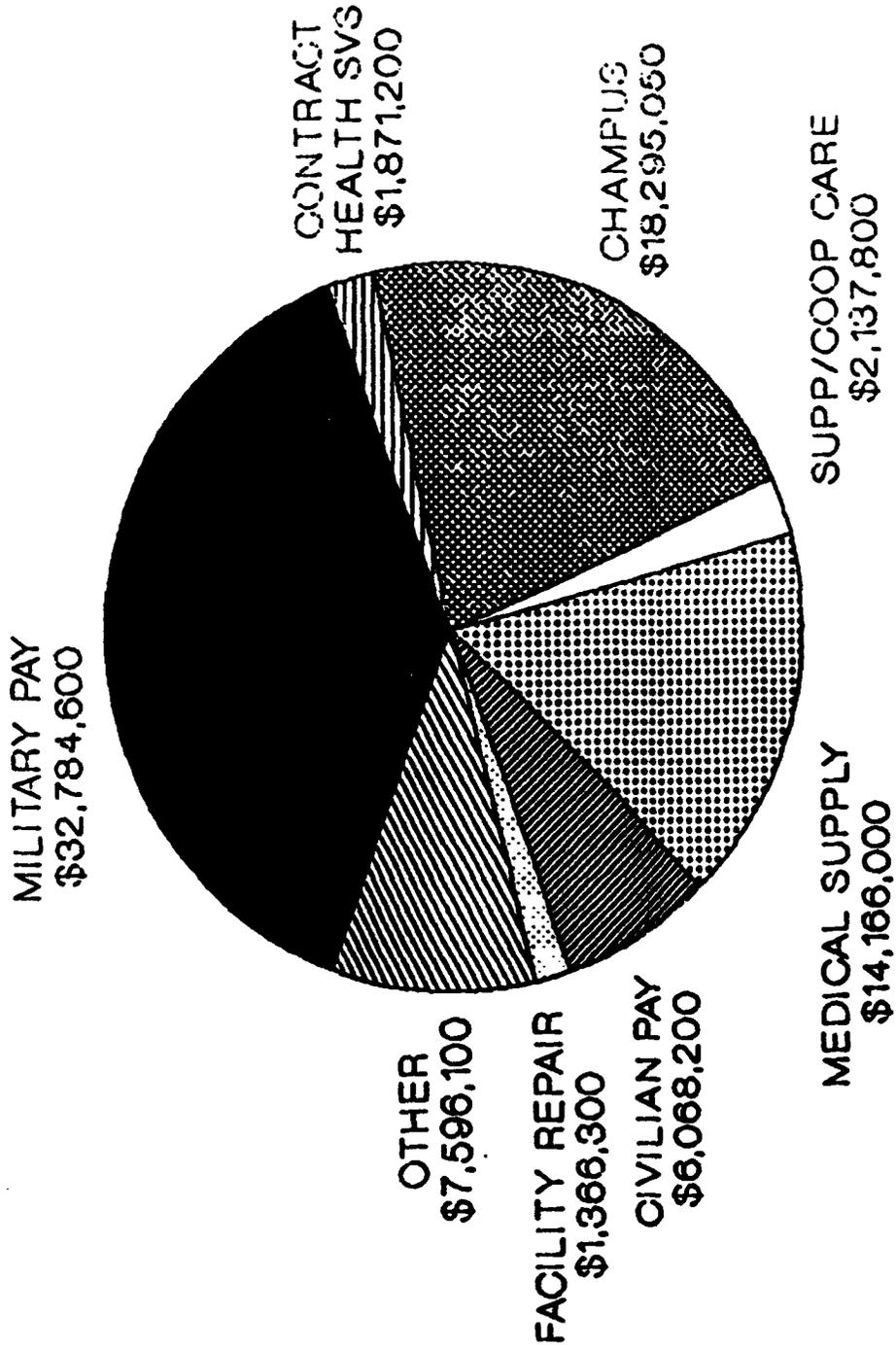
## APPENDIX C

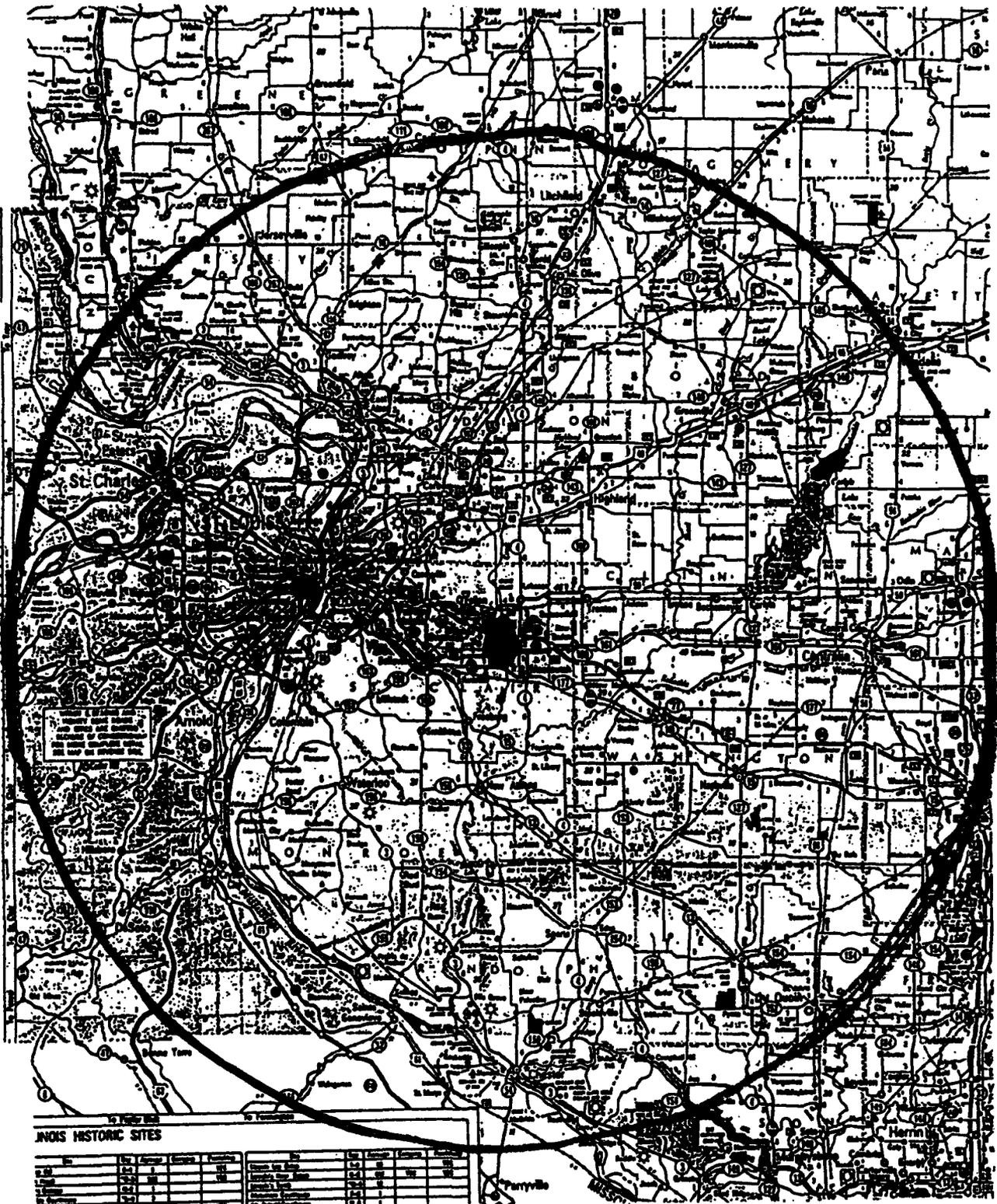
ST. LOUIS ARMY HEALTH CLINIC  
FY91 OBLIGATIONS (IN \$/000)

SERVICE	CIV PAY	TRAVEL	RENTS	CONTRACTS	SUPPLY	EQUIP	TOTAL
CHAMPUS	23.4						23.4
Dental	101.4				18.7	1.3	121.4
Administration	14.9	0.1		0.3	7.3	0.7	23.3
Med Records	55.7					5	60.7
AMB Med Branch	186						186
AMB Med Nurse	35	0.6		0.1	20.3		60
Optometry		0.4			0.1		0.5
Pediatrics	101						101
Occ Health	139.1		0.4		7.3	1.3	148.1
Pharmacy	58	1.5		2.9	486.5		548.9
Pathology	14.6	0.5					15.1
Pathology	49.9			9.3	59.4	5.3	123.9
Radiology	26.8				4.9		31.7
Radiology				20.4			20.4
Material SVC	21.7			0.6			22.3
Supp Care							
Counter Narcs	40.5						40.5
Flight Med							
<b>TOTAL</b>	<b>868</b>	<b>3.1</b>	<b>0.4</b>	<b>33.6</b>	<b>604.5</b>	<b>13.6</b>	<b>1523.2</b>

SERVICE	CIV END STRENGTH	CIV WORKYEARS	MILITARY PAY	MILITARY WORKYEARS
CHAMPUS	1	1		
Dental	5	4.8	338.8	6.1
Administration	1	1	261.6	2.7
Med Records	3	3.1		0.3
AMB Med Branch	2	2	161.3	1.8
AMB Med Nurse	1	1	193.4	6
Optometry				0.3
Pediatrics	1	1		
Occ Health	4	4		
Pharmacy	2	2	31	1.3
Pathology	1	1		
Pathology	2	2		
Radiology	1	1		
Radiology				
Material SVC	1	1	30.8	0.3
Supp Care				
Counter Narcs	1	1		
Flight Med			103.6	0.9
<b>TOTAL</b>	<b>26</b>	<b>25.9</b>	<b>1120.5</b>	<b>19.7</b>

# 1991 EXPENSES SCOTT MED CENTER CATCHMENT AREA





ST. LOUIS CLINIC \_\_\_\_\_

SCOTT AFB \_\_\_\_\_

### IMPLEMENTATION PLAN

Should the recommendation to realign the Health Clinic come to fruition, some of the key entities involved have expressed a desire to see the transfer become effective at the beginning of Fiscal Year 1994. Realizing the many levels of management that the approval process must endure, this goal may be a bit optimistic. However, for the benefit of all agencies involved, the transfer would be most effective prior to Scott Medical Center's full-scale implementation of the coordinated care program.

In the effort to get this realignment approved, the following steps are believed to be necessary:

- \* Obtain concurrence from the Commanders of the Fort Leonard Wood MEDDAC and Scott Medical Center
- \* Submit request for approval to Health Services Command
- \* With HSC approval, develop marketing plan in concert with Scott Medical Center.

The two target populations are:

Beneficiaries  
Command elements of ARPERCEN and ATCOM

- \* HSC submits request for approval to OTSG
- \* OTSG and the Air Force Surgeon General coordinate to present proposal to DOD/HA
- \* Upon final approval by DOD/HA, implement the execution phase of the realignment

APPENDIX F

The execution plan will, of course, be somewhat complex but, with the support of the highest levels, should be capable of being acted upon expeditiously. The following actions will be among those necessary to complete this transition:

- \* Market the benefits of the realignment to two target populations
  
- \* Resource managers from both Services determine what assets and resources will be transferred.
  - Civilian positions
  - Military positions
  - Funding
  - Equipment
  - Lease agreement for current location
  
- \* Develop a target date for the actual change to Air Force Control
  
- \* Bring Air Force positions on-line
  
- \* Transfer Clinic control with an overlap time to eliminate disruption of care
  
- \* Transfer patient records
  
- \* Initiate the transfer of Civilian positions  
Initiate the PCS of Army staff
  
- \* Transfer Clinic control to the Air Force